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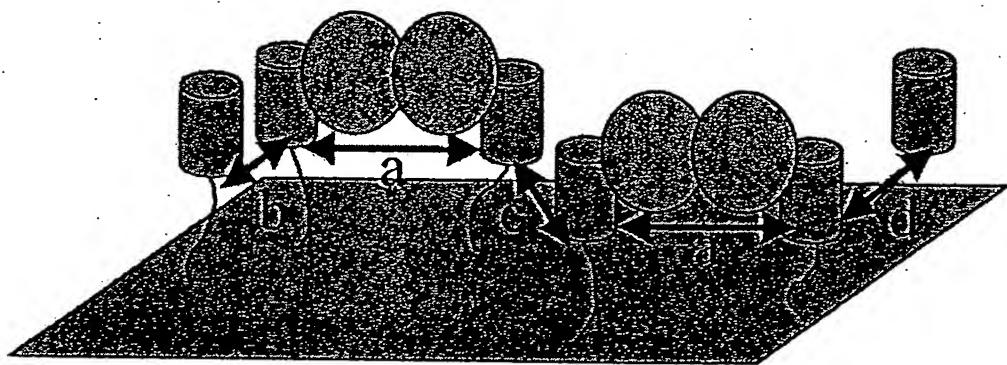


FIG. 1

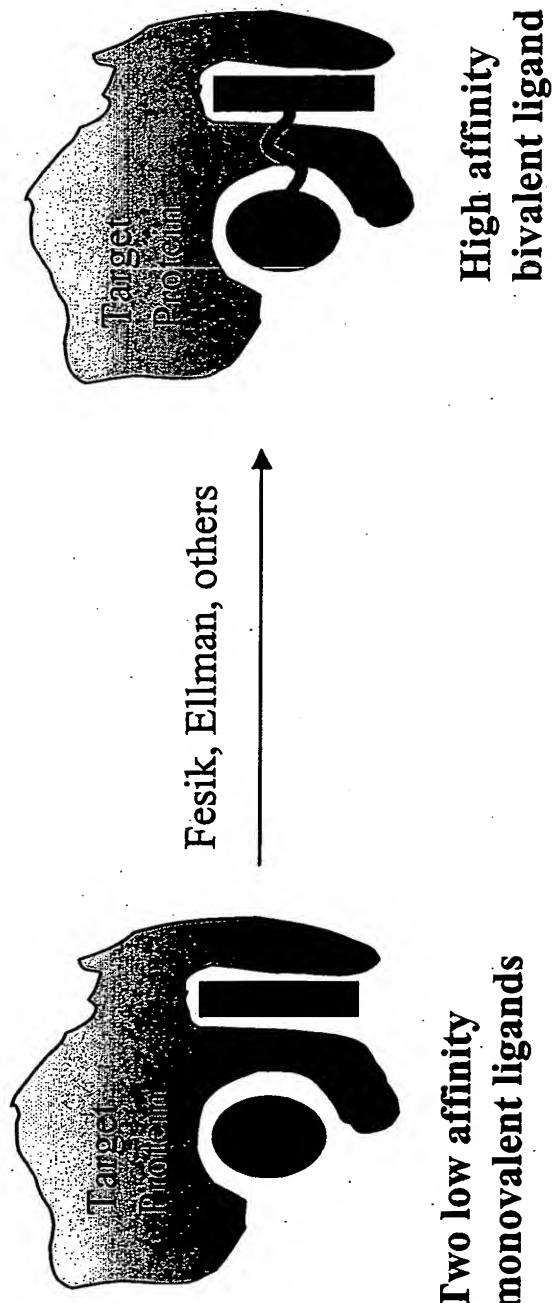
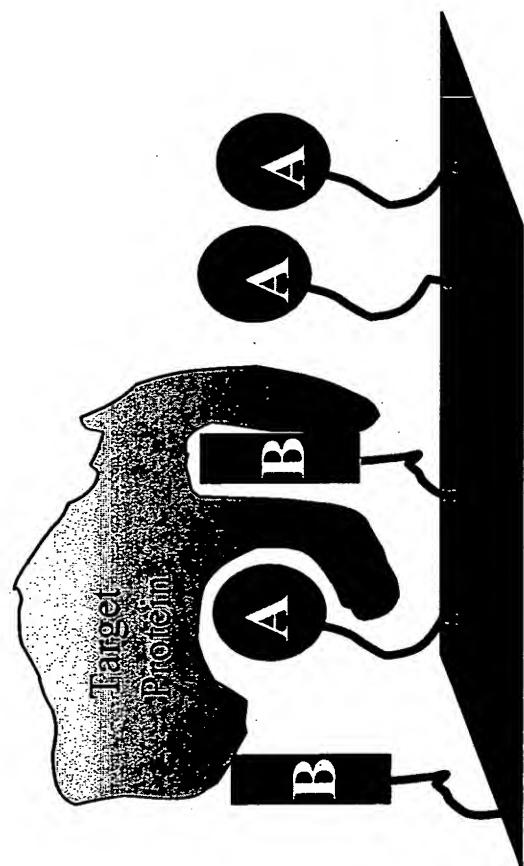


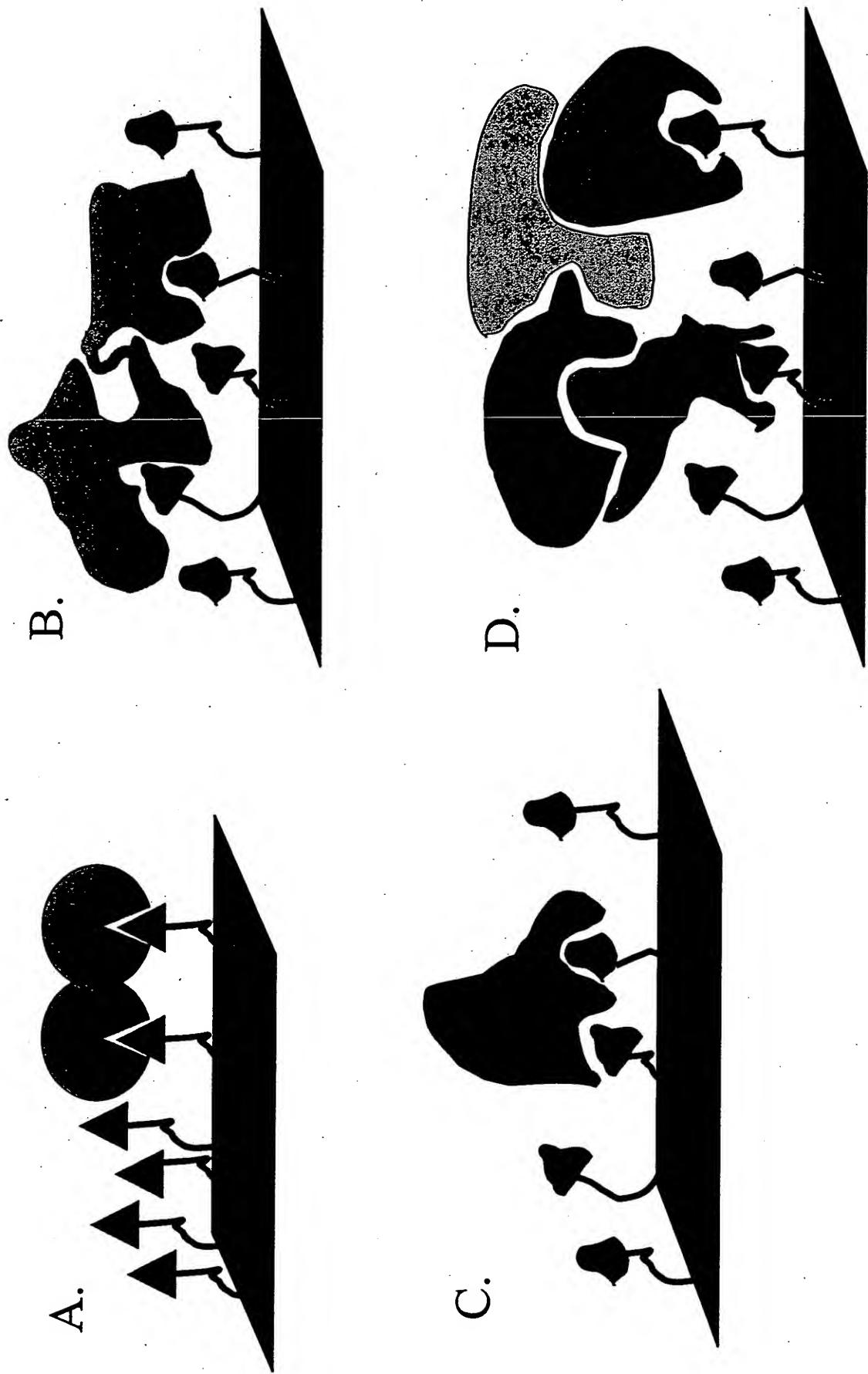
FIG. 2

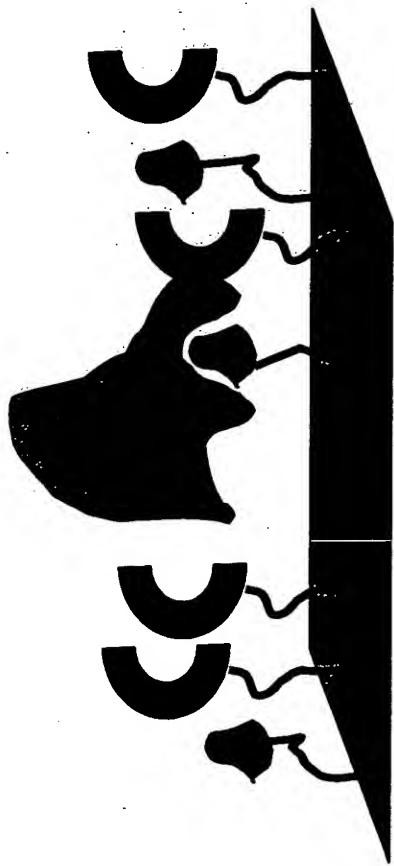


Bivalent association linked
by the surface

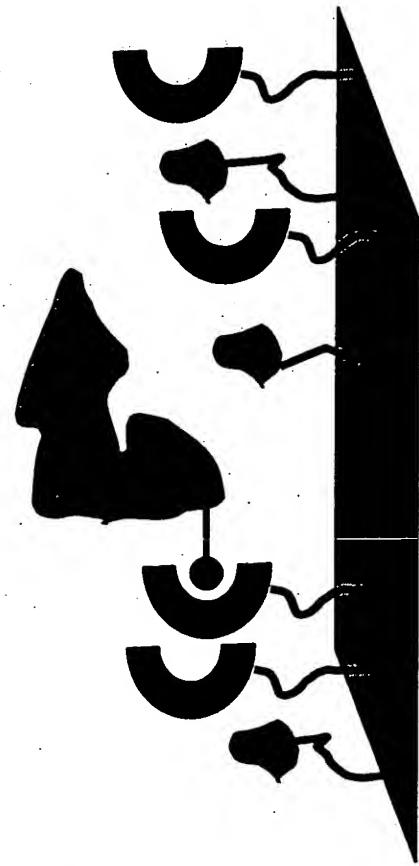
FIG. 3

FIG. 4





The same protein lacking the modification would be bound weakly via a one-point contact.



Other proteins containing the same modification would be bound weakly via a one-point contact



High affinity binding of a particular post-translationally modified protein through a two-point contact.

FIG. 5

G80BP-A: YDQDMQNNTFDDLFWKEGHR
 G80BP-B: NEDWERDDQNPWDKLWMNRA
 GAL4 AD: MDQTAYNNAFGITRGMFNTTMDVYNYLFDDEDT

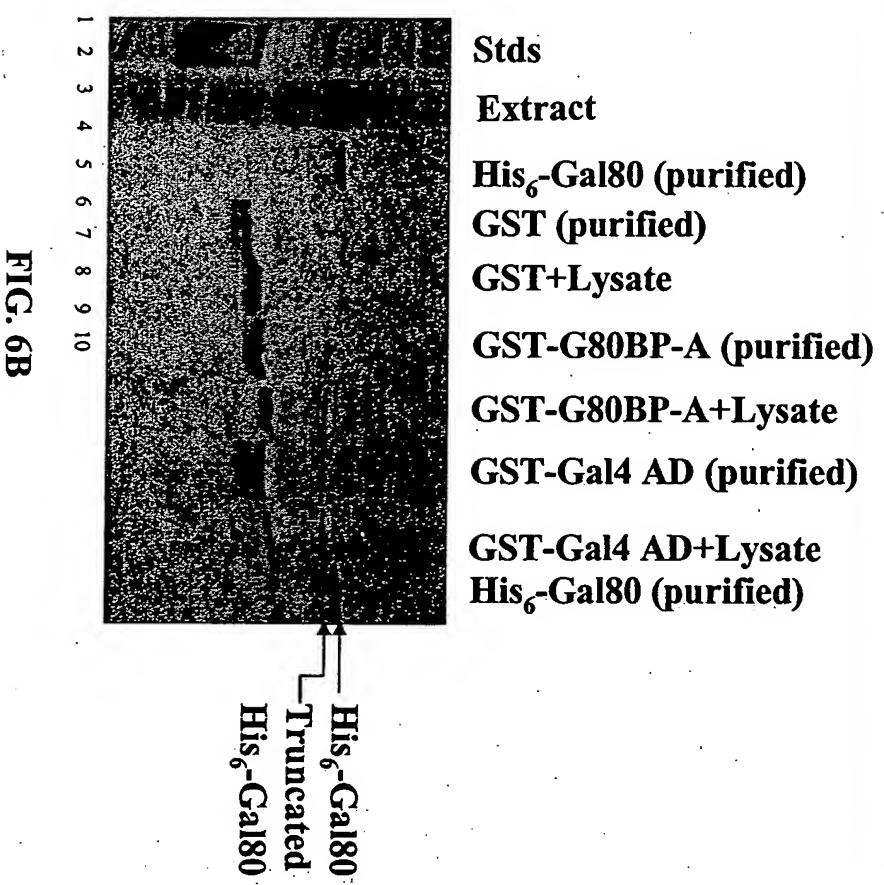
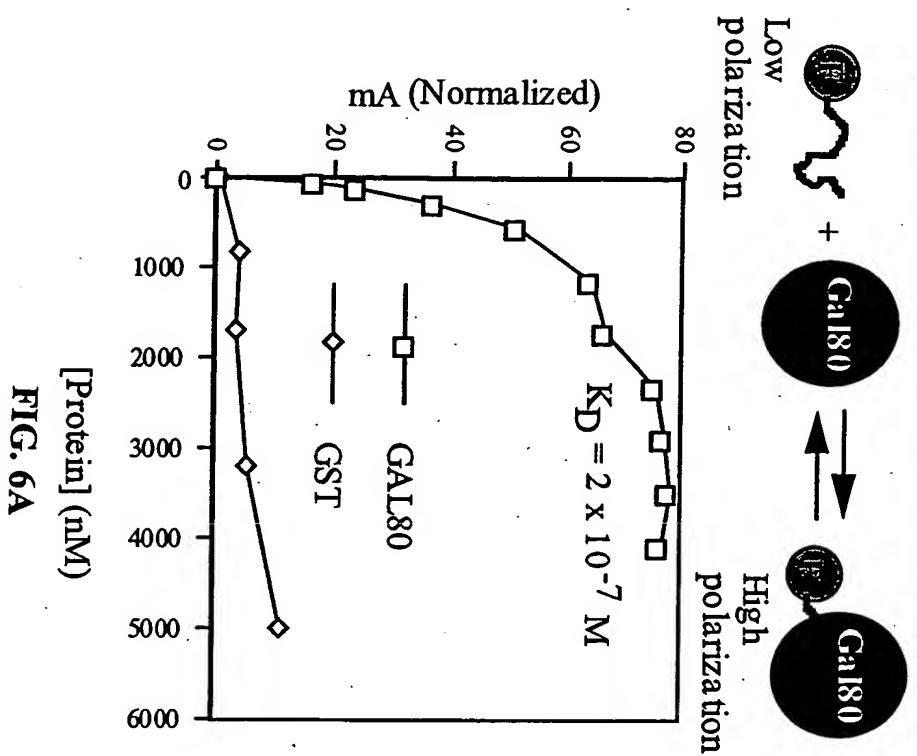
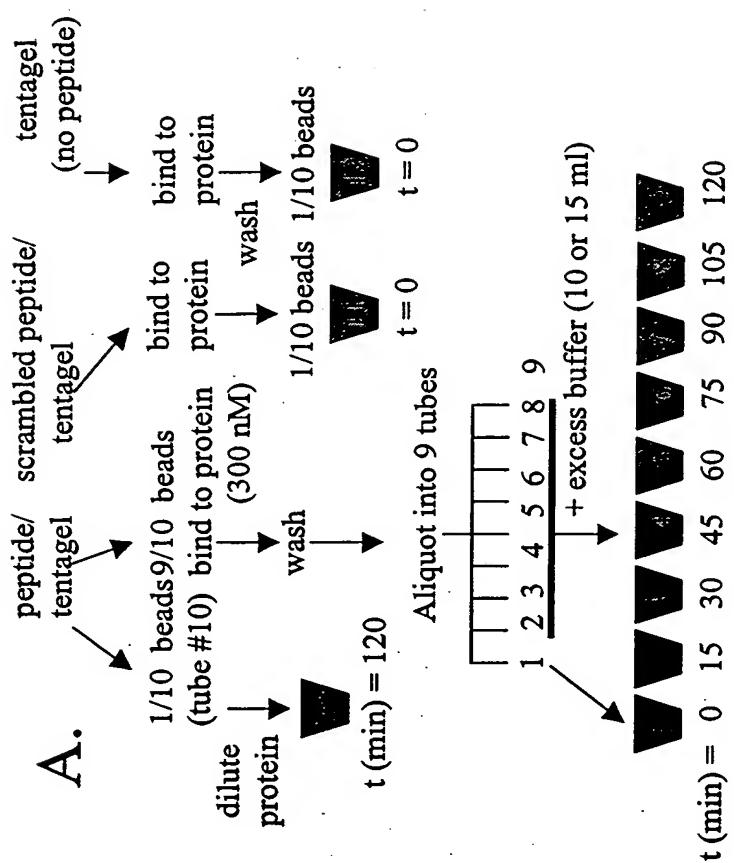


FIG. 6B

FIG. 6A



Quantitate Bead-Bound Protein By
 SDS-PAGE/Western Blot

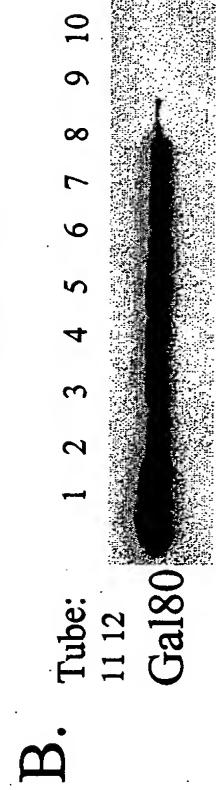


FIG. 7

A. [His6Gal80] (nM): 8 4 2 1.5 1 0.75 0.4 0.3 0.2
His6Gal80 (ng): 200 100 50 37.5 25 17.5 10 7.5 5



B.

His6Gal80 (ng) 84 63 42 30 21 15 10 5

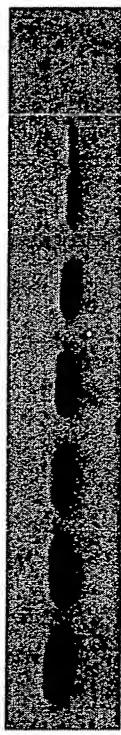


FIG. 8

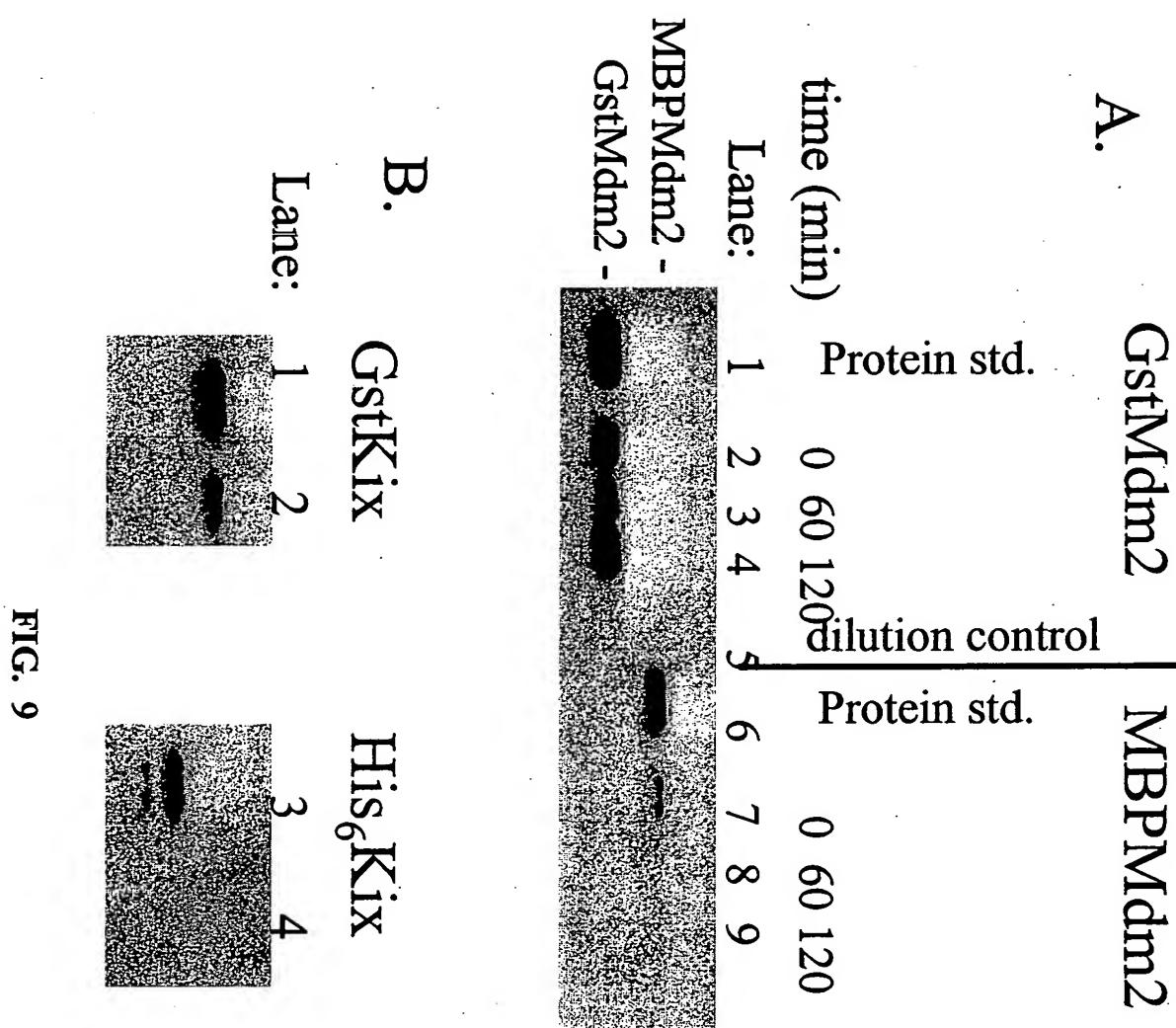


FIG. 9

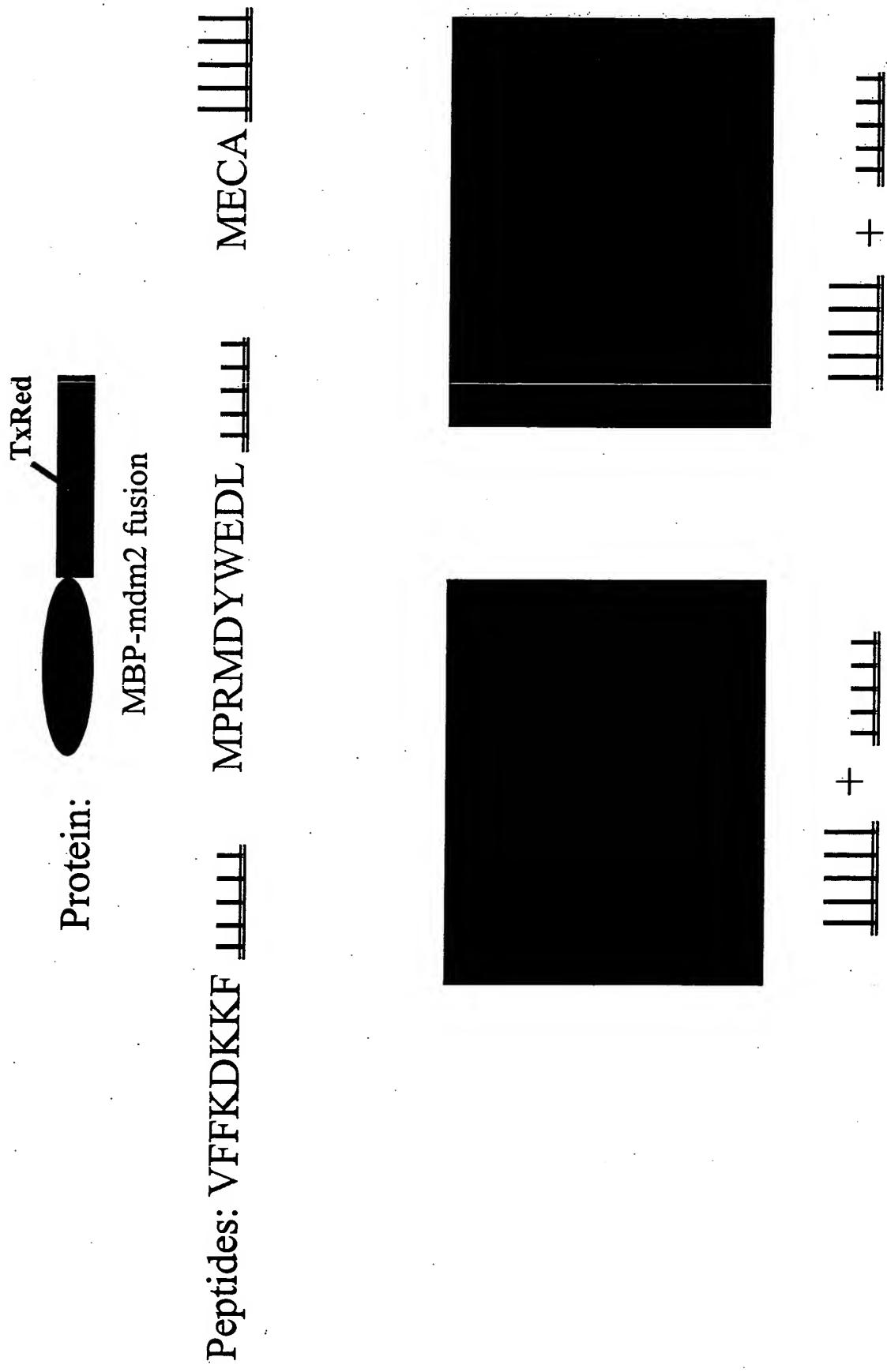


FIG. 10

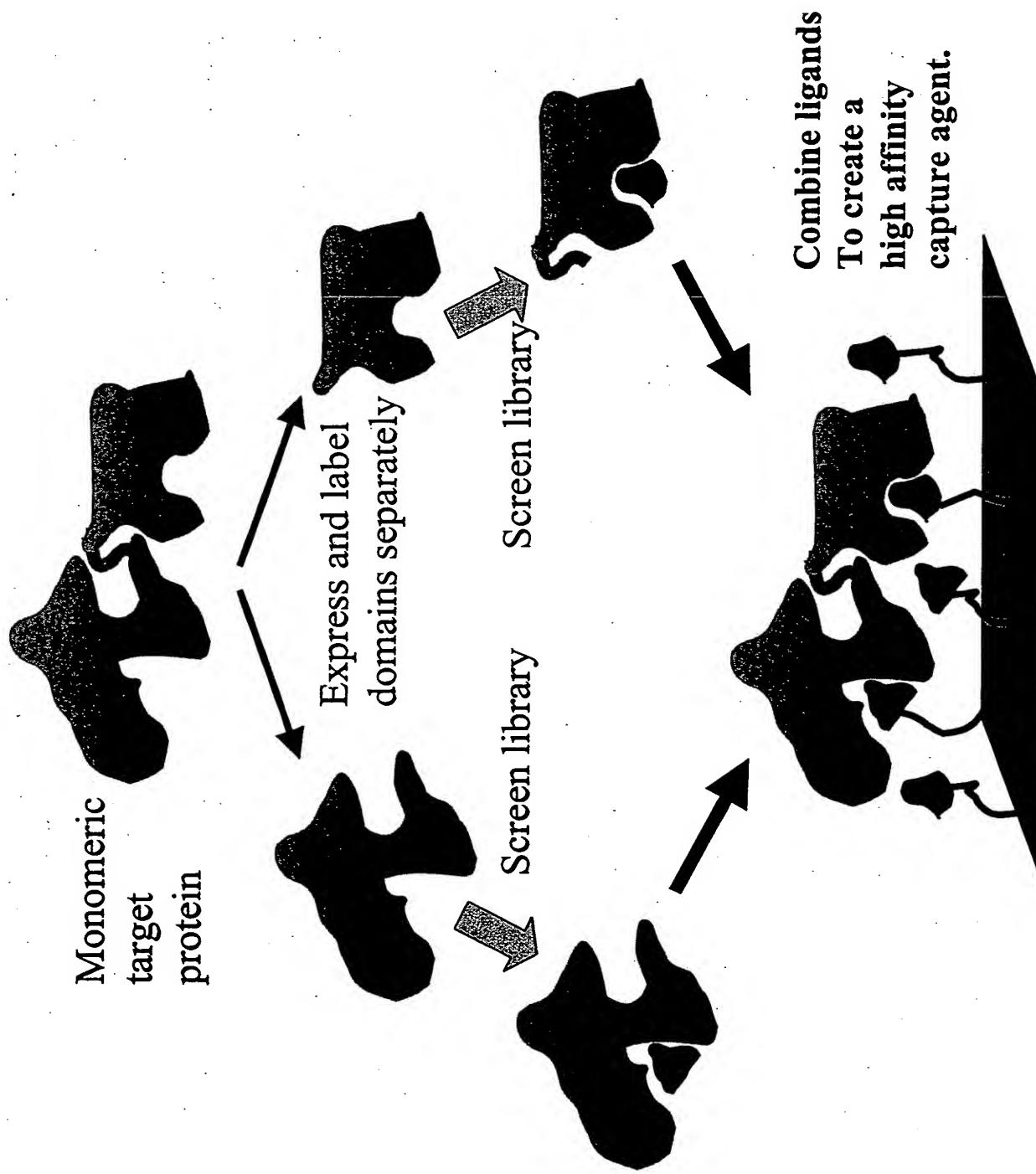


FIG. 11

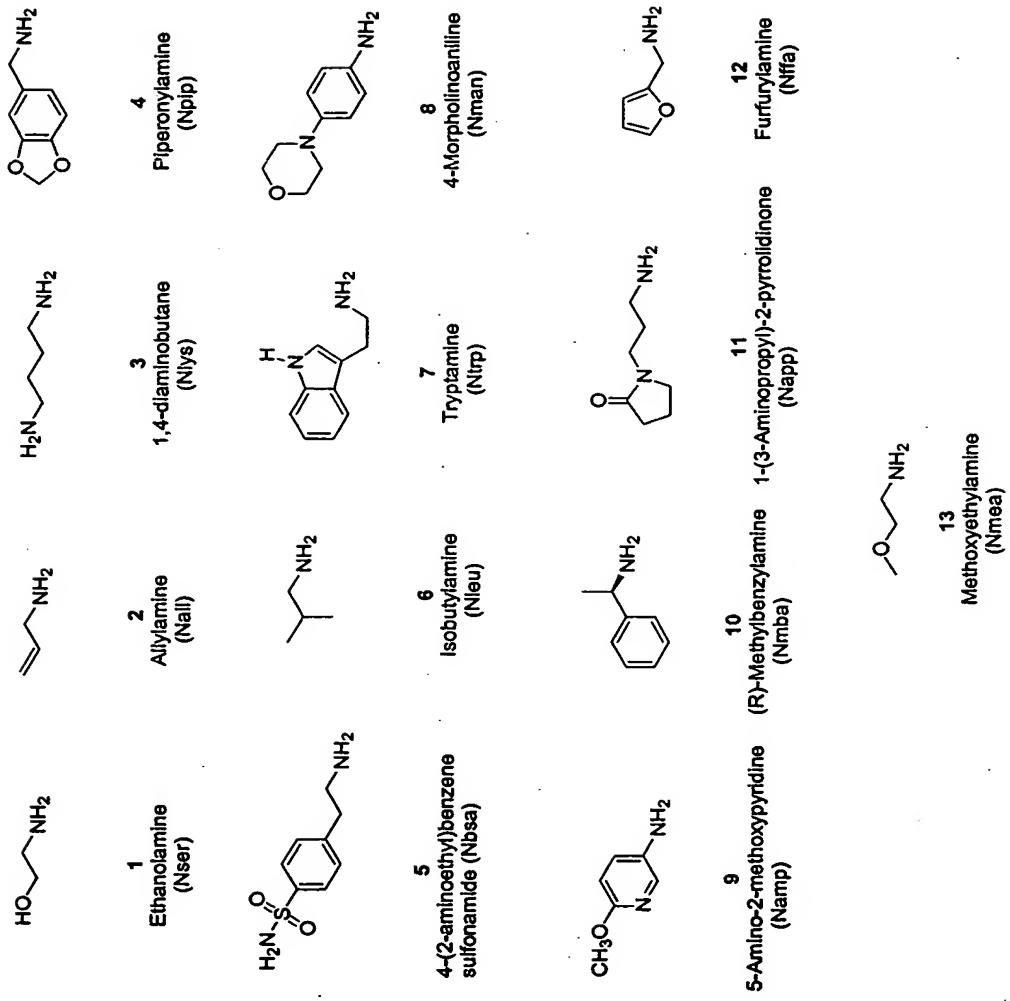


FIG. 12

- (1) Npip-Npip-Nbsa-Nser-Nlys-Npip-Nbsa-Nlys
- (2) Nbsa-Npip-Nlys-Nser-Nbsa-Nser-Nbsa-Npip
- (3) Nbsa-Nlys-Npip-Nser-Nbsa-Nser-Nall-Nlys
- (4) Nbsa-Nbsa-Nall-Nser-Nall-Npip-Nall-Npip
- (5) Nall-Nall-Nbsa-Nser-Nlys-Nbsa-Nser-Nall
- (6) Nlys-Nlys-Nser-Npip-Nall-Nbsa-Nser
- (7) Nlys-Nlys-Nser-Nser-Npip-Nbsa-Nall-Nbsa
- (8) Nall-Nlys-Nser-Nser-Nbsa-Nser-Nlys-Nlys
- (9) Npip-Nlys-Nall-Nser-Nbsa-Nser-Nbsa-Nall
- (10) Nbsa-Nlys-Npip-Nser-Nbsa-Nser-Nall-Nlys

FIG. 13

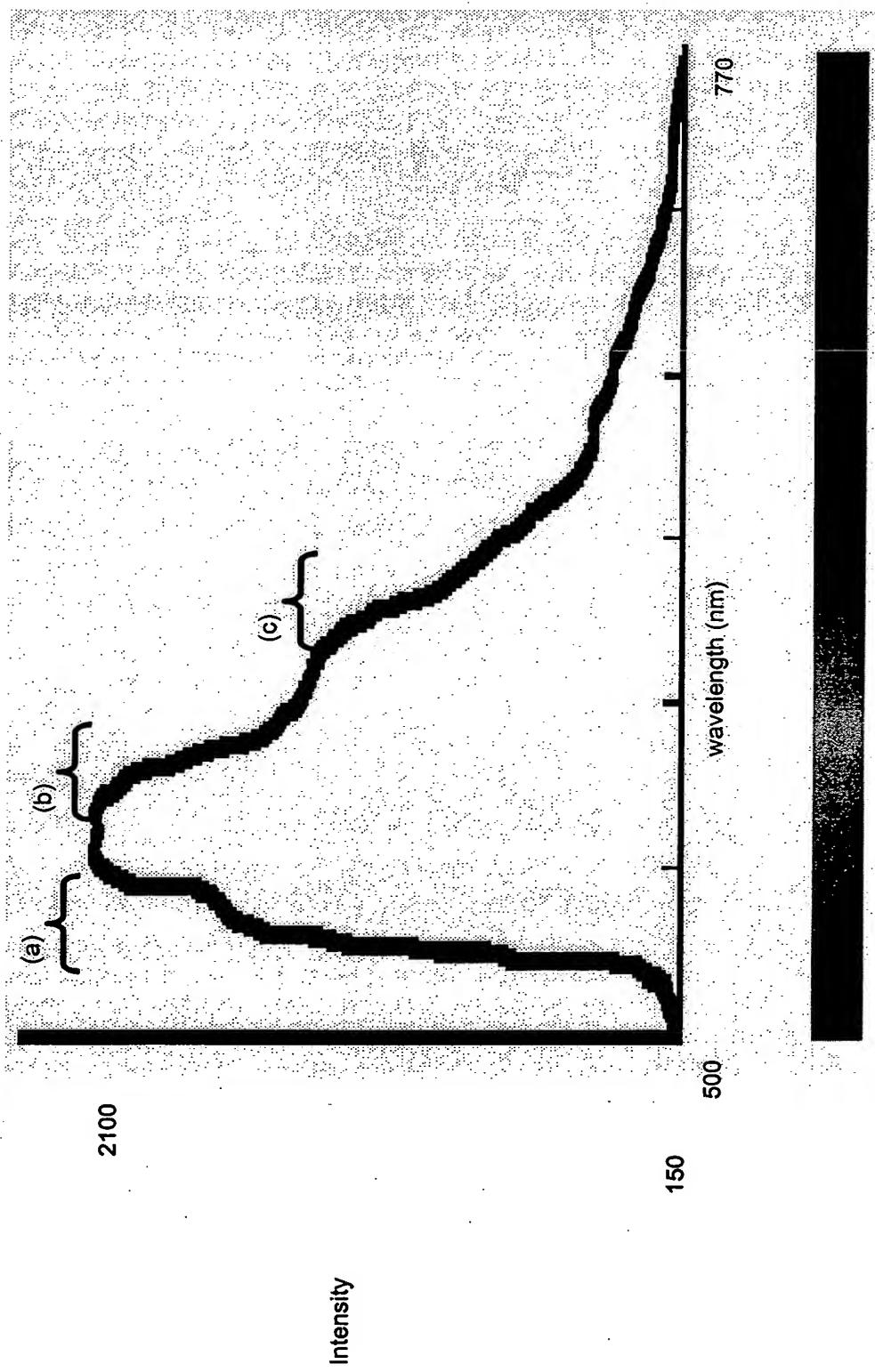
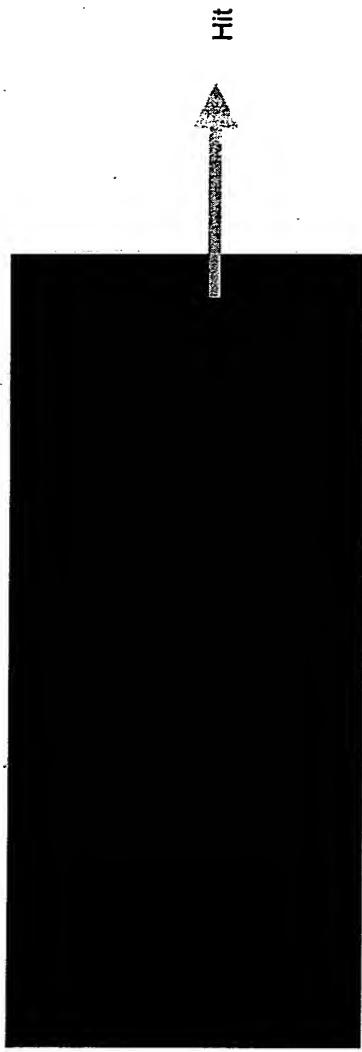
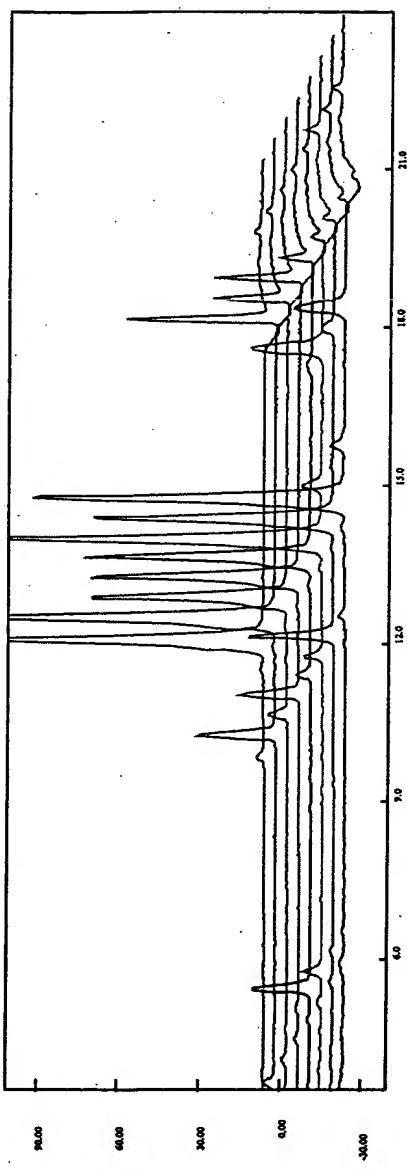


FIG. 14

(A)



(B)



(C)

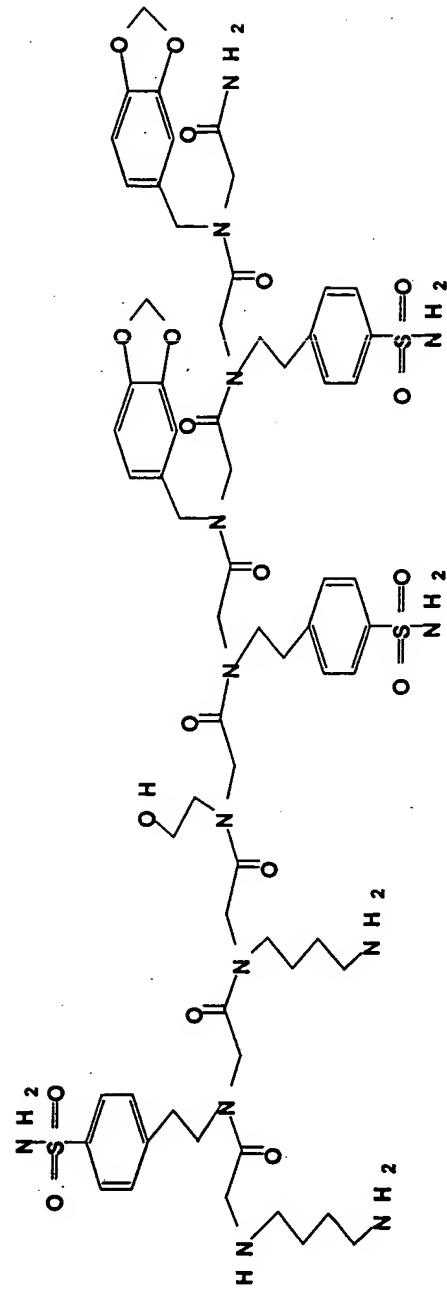


FIG. 15

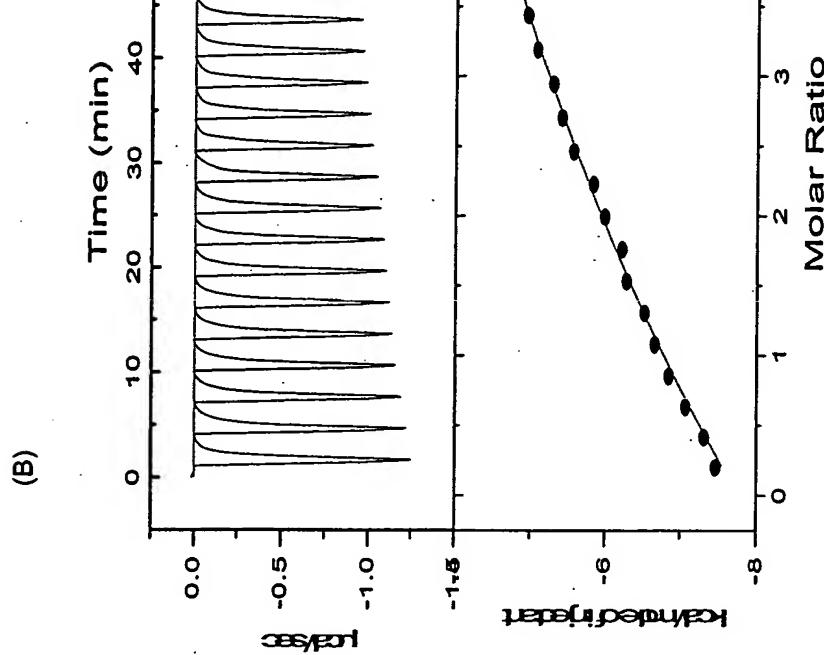
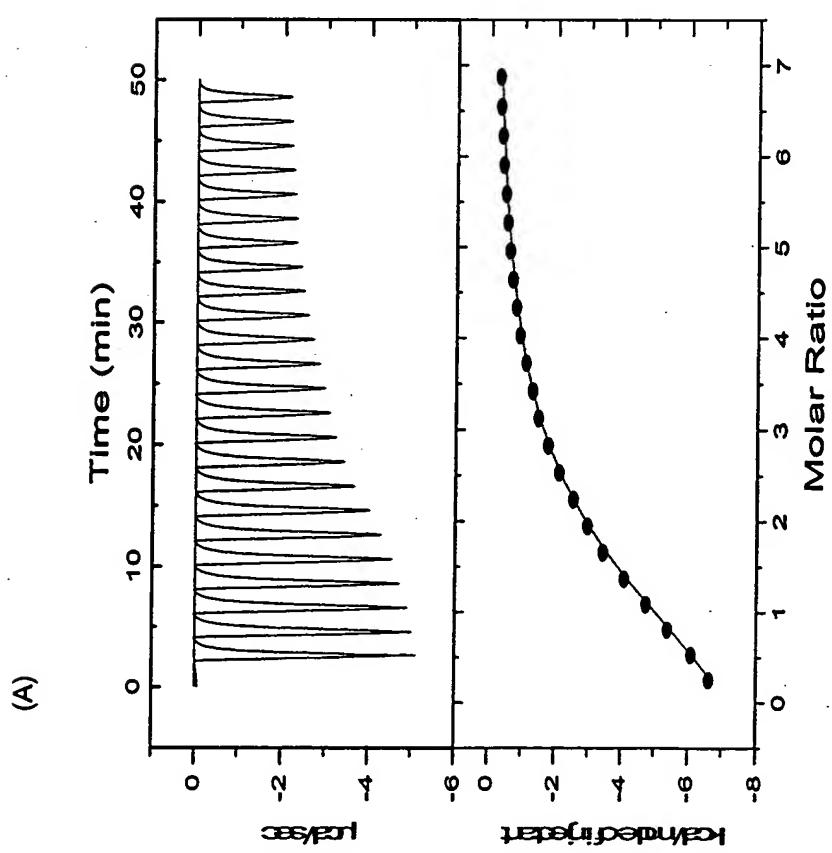


FIG. 16

(A)



(B)

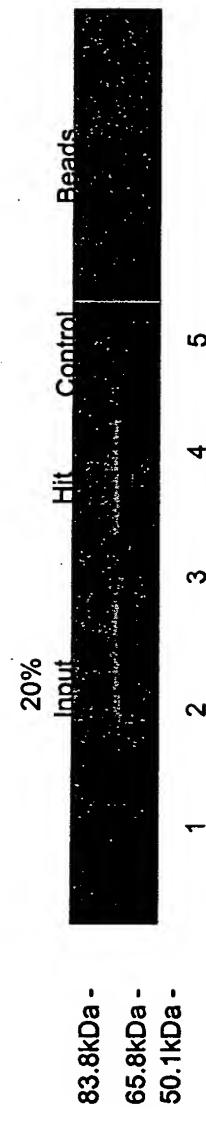
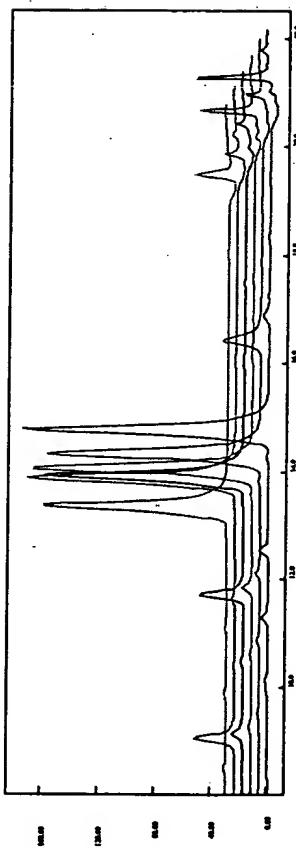


FIG. 17

Nieu-Nbsa-Niys-Napp-Ntrp-Nieu
 Nmba-Nieu-Napp-Nmba-Nbsa-Nffa
 Niys-Nmea-Ntrp-Napp-Nieu-Nieu
 Nmea-Npip-Nmba-Nffa-Napp-Nieu
 Nieu-Nlys-Nmea-Nieu-Ntrp-Nmea
 Ntrp-Nffa-Ntrp-Nbsa-Napp-Npip
 Nffa-Nieu-Nmea-Npip-Niys-Nieu
 Npip-Nmea-Nmba-Napp-Nieu-Napp
 Napp-Nmea-Nmba-Npip-Nffa-Nffa
 Nieu-Npip-Nbsa-Nmea-Nmba-Nmea

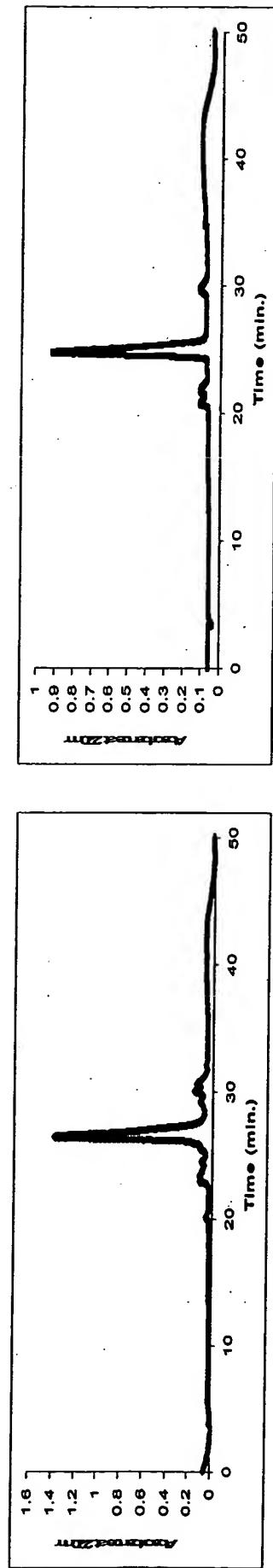
• • • • • • • • • • • •

(A)



(C)

(C)



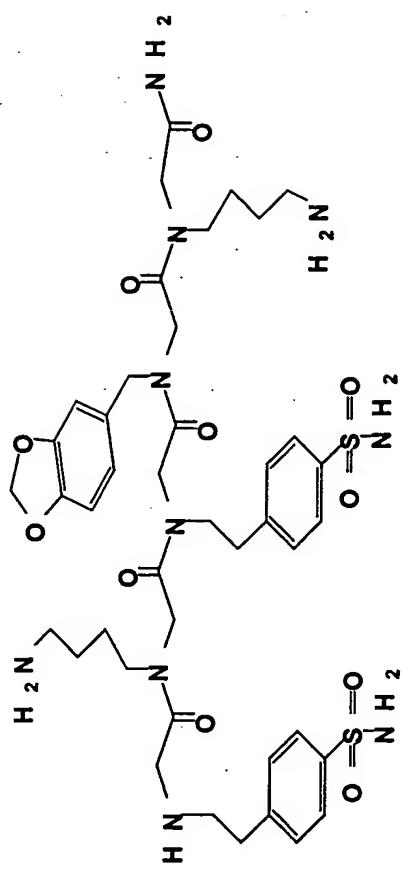
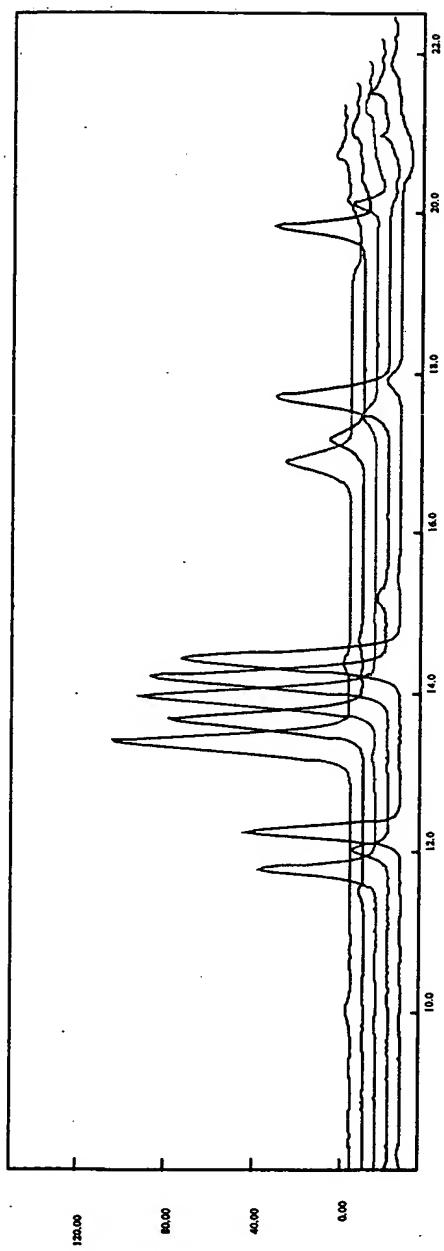


FIG. 19

(A)



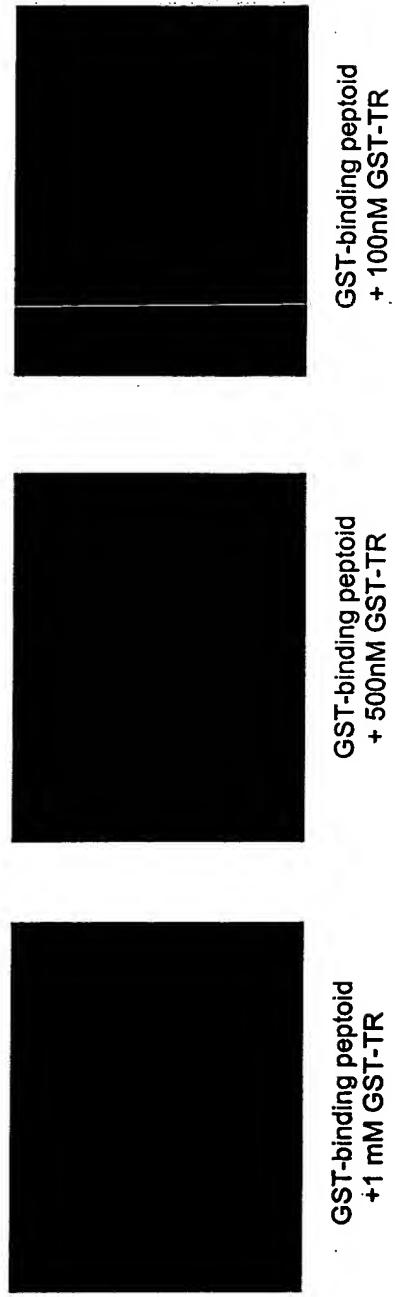
GST-binding peptoid +
GST-TR

GST-binding peptoid +
MBP-TR

Random peptoid +
GST-TR



(C)



GST-binding peptoid
+ 1 mM GST-TR

GST-binding peptoid
+ 500nM GST-TR

GST-binding peptoid
+ 100nM GST-TR

FIG. 20

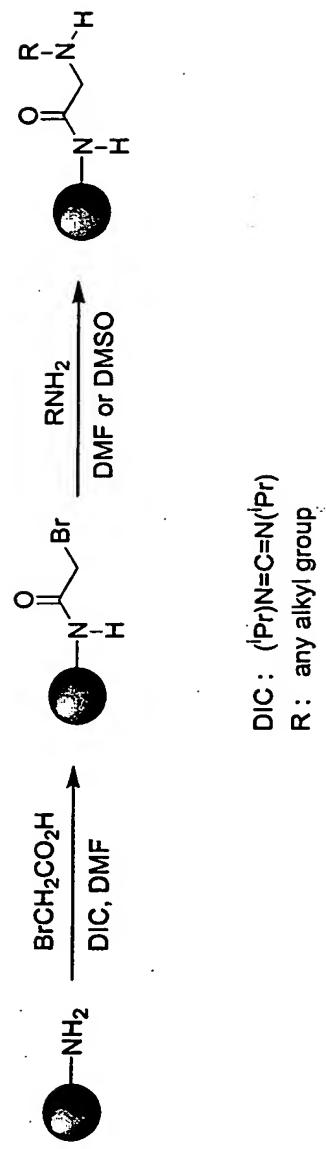


FIG. 21

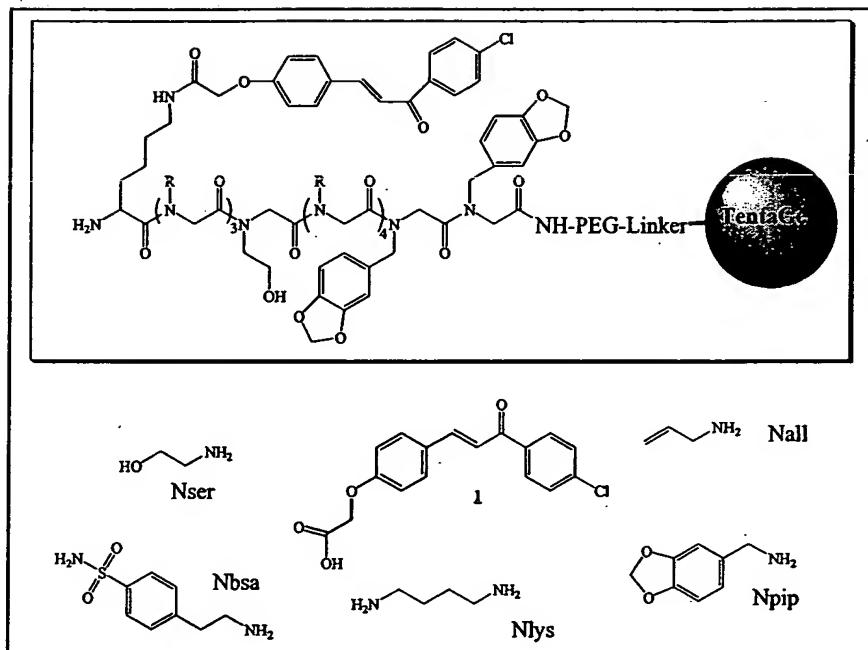


FIG. 22

FIG. 23A

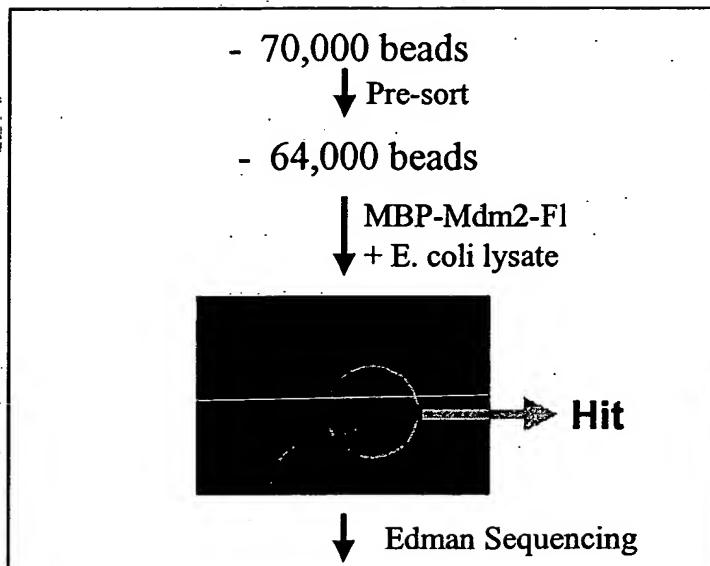


FIG. 23B

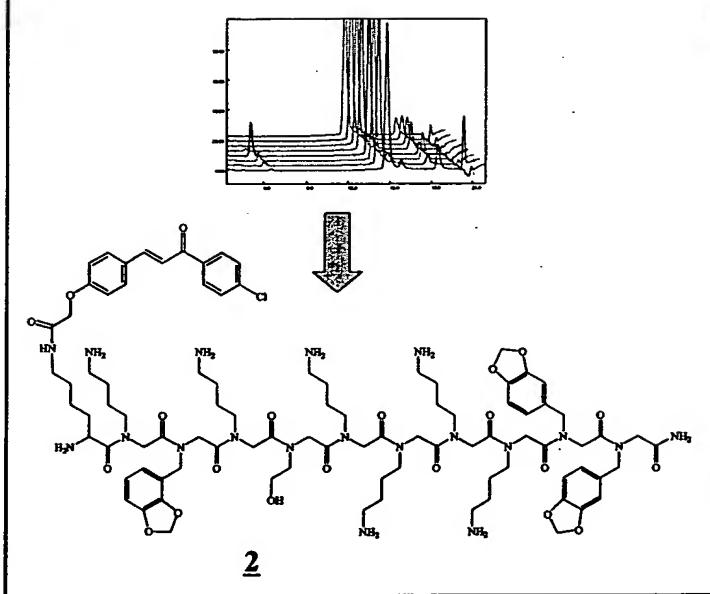


FIG. 23C

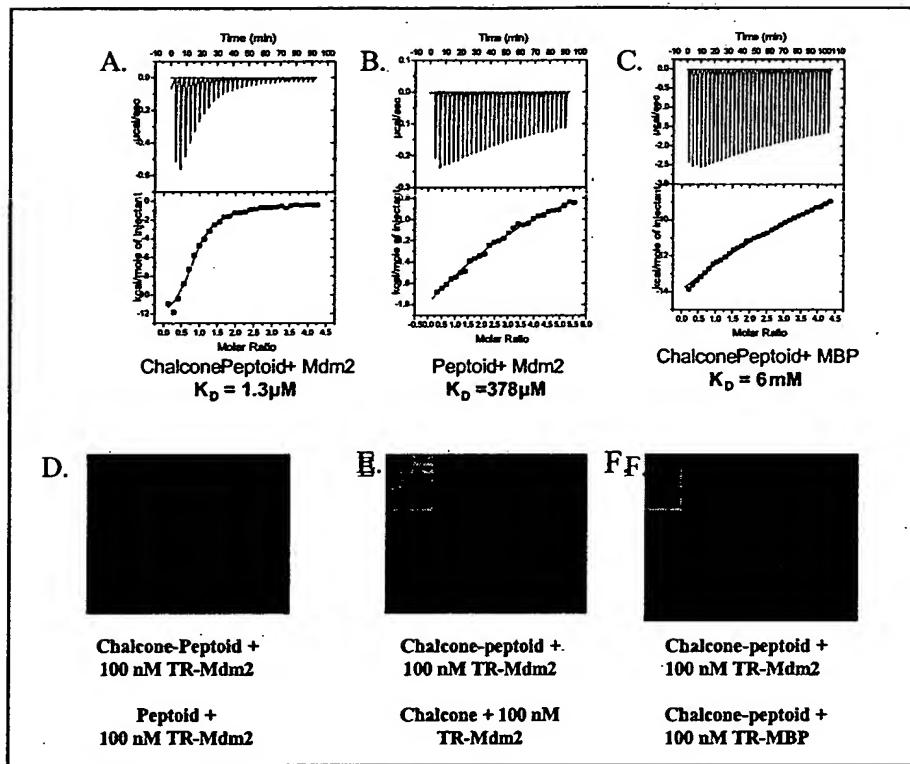


FIG. 24A-24F

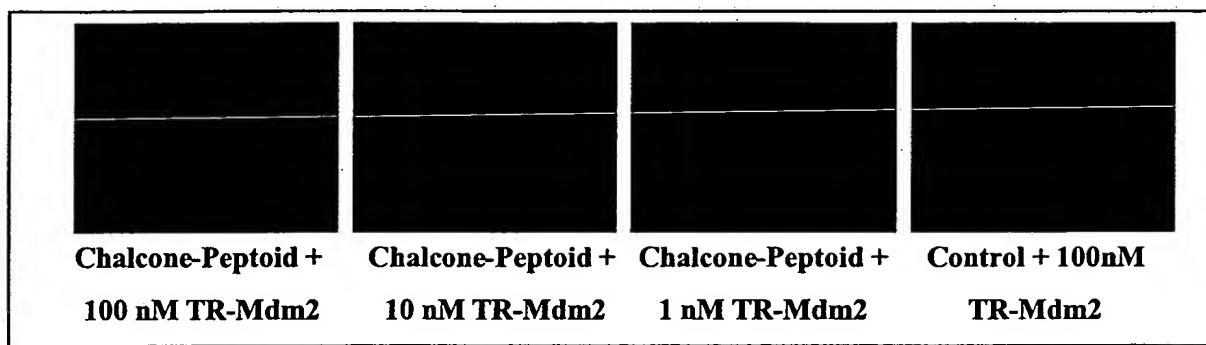


FIG 25

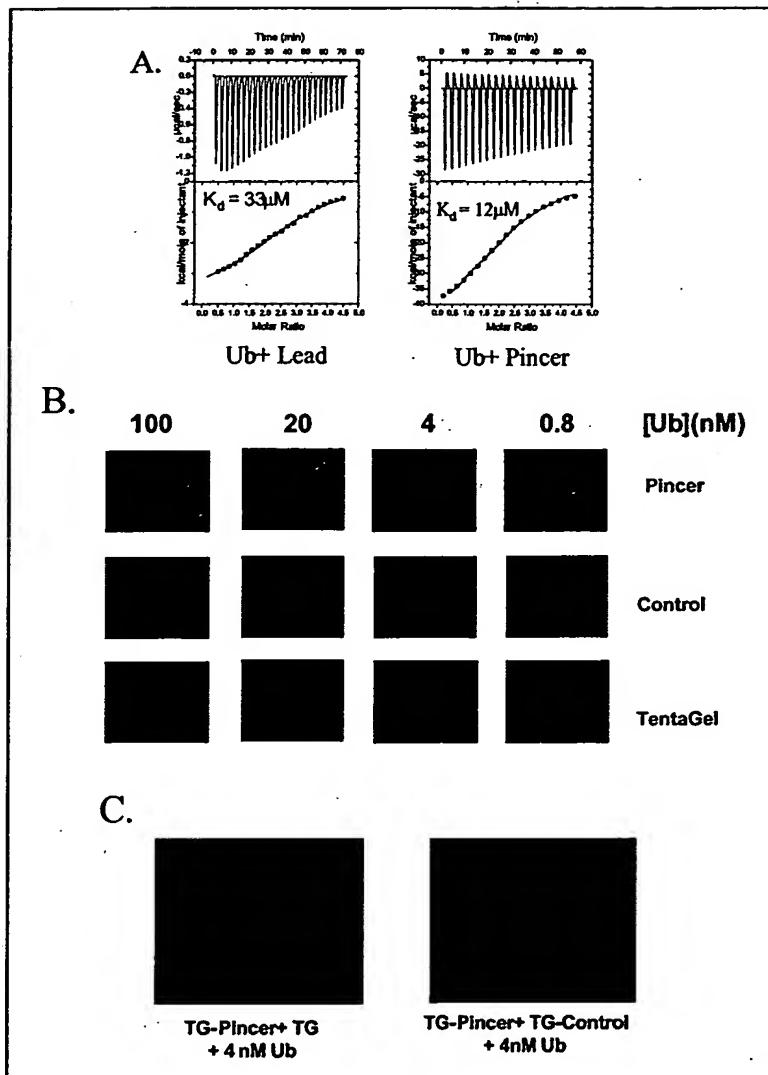


FIG. 26A-26C